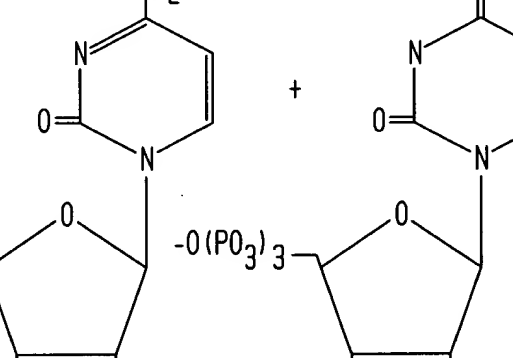
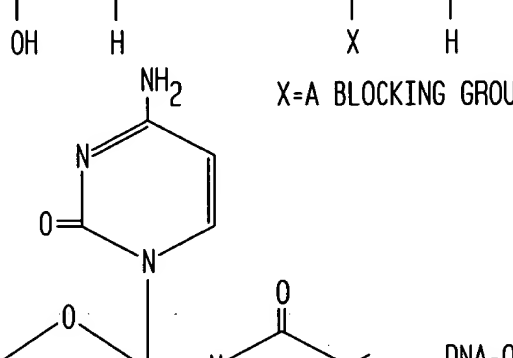


1. 

$\text{DNA-OH} + \text{Nucleotide-X} \xrightarrow{\text{CATALYZING ENZYME}} \text{DNA-O-Nucleotide} + \text{PPi}$

$\text{X} = \text{A BLOCKING GROUP}$

2. 

$\text{DNA-O-Nucleotide-X} + \text{New Nucleotide-X} \xrightarrow{\text{REMOVE BLOCKING GROUP, REPEAT STEP 1 WITH A NEW BLOCKED NUCLEOTIDE}} \text{DNA-O-Nucleotide-New Nucleotide-X} + \text{PPi}$

FIG. 2

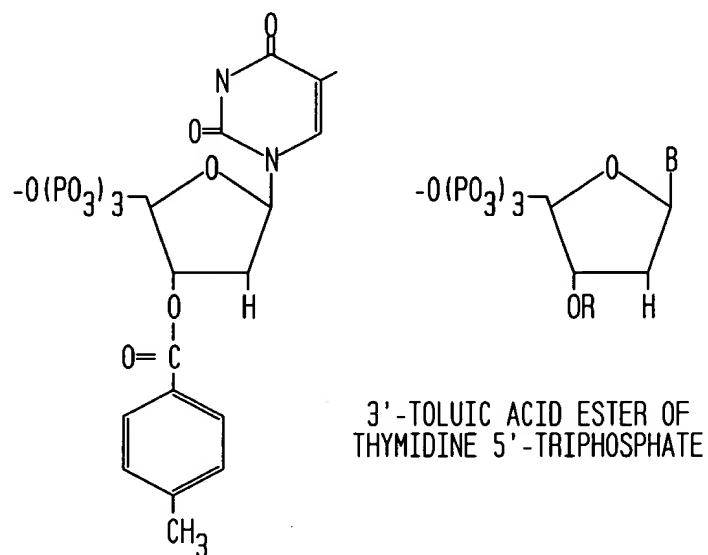


FIG. 3

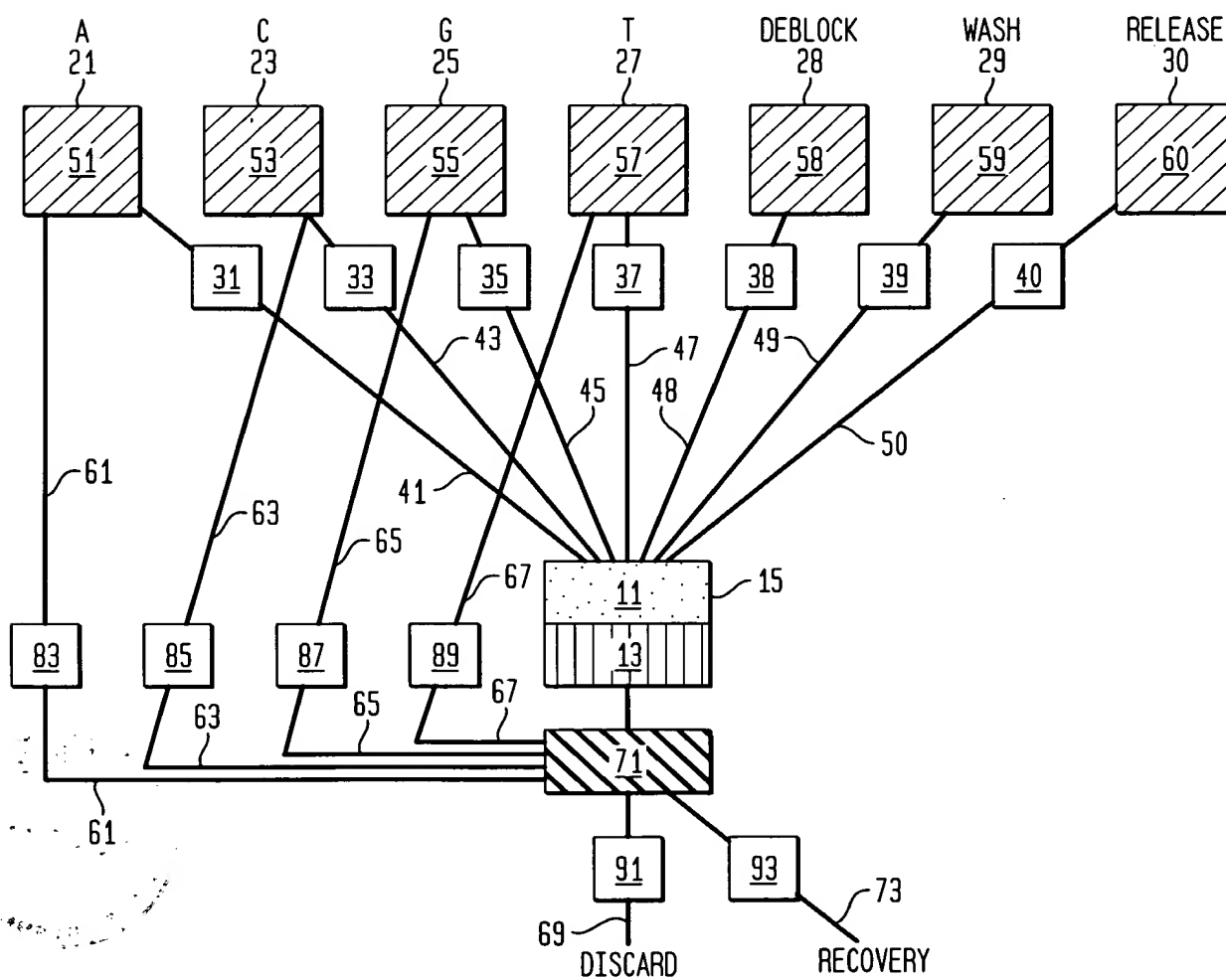


FIG. 4

